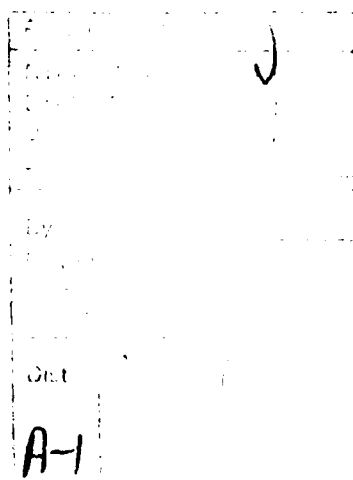


AD-A214 746

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
<small>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>				
1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE August 31, 1983	3. REPORT TYPE AND DATES COVERED Final (Jan 1, 83-Aug 31, 83)		
4. TITLE AND SUBTITLE TOPICAL MEETINGS ON EXCIMER LASER, OPTICAL TECHNIQUES FOR REMOTE PROBING OF THE ATMOSPHERE, AND METEOROLOGICAL OPTICS			5. FUNDING NUMBERS <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 10px auto;">2</div>	
6. AUTHOR(S) Dr. Jarus W. Quinn			61102F 2301A1	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) OPTICAL SOCIETY OF AMERICA 1816 Jefferson Place, N.W. Washington, D.C. 20036			8. PERFORMING ORGANIZATION REPORT NUMBER AFOSR-TR-89-1458	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) AFOSR BLDG 410 BAFB DC 20332-6448			10. SPONSORING/MONITORING AGENCY REPORT NUMBER AFOSR-83-0039	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION/AVAILABILITY STATEMENT  Approved for public release; distribution unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) TOPICAL MEETING ON EXCIMER LASERS is primarily devoted to ultraviolet excimer laser systems and their applications. Specific areas of topical interest are: excimer laser system development, linewidth, frequency, and pulse duration control of excimer systems, spectroscopy in the VUV and XUV, nonlinear processes including short wavelength generation via harmonic generation, sum frequency mixing and Raman scattering with excimer systems, photochemistry conducted with excimer laser systems, excimer pumped laser systems, diagnostics and processing of solid materials, laser produced plasmas and molecular biology. TOPICAL MEETING ON OPTICAL TECHNIQUES FOR REMOTE PROBING OF THE ATMOSPHERE focussed on advanced optical techniques and data processing for remote sensing at UV, visible and infrared wavelengths with factors common to all techniques highlighted. Techniques for probing chemical species or atmospheric parameters such as temperature, humidity, turbulence and wind using passive or active sources, and coherent or incoherent detection were presented. Topics included: atmospheric optical propagation effects, laser remote sensing techniques, passive/spectrometric remote sensing techniques, and systems analysis.				
14. SUBJECT TERMS			15. NUMBER OF PAGES 14	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT	

TOPICAL MEETING ON METEOROLOGICAL OPTICS WAS DEVOTED TO ALL ASPECTS OF meteorological optics that, ~~was~~ visible to the unaided eye or with the use of binoculars or polarizing filters. The purpose of the meeting was to bring together scientists actively working in the field of halos, rainbows, scattering and refraction.



PREREGISTRATION LIST FOR  
TOPICAL MEETING ON  
EXCIMER LASERS

Anderson, John R., Physics International Company, 2700 Merced Street, San Leandro, CA 94577

Bauer, Arthur H., Rockwell International, 6633 Canoga Avenue, MS FA42, Canoga Park, CA 91304

Beaglier, Guy W., Naval Ocean Systems Center, 271 Catalina Boulevard, 8113, San Diego, CA 92152

Bigio, Irving, Los Alamos National Laboratory, PO Box 1663, MS J566, Los Alamos, NM 87545

Bischel, William K., SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025

Bobbs, Bradley L., Rockwell International, 6633 Canoga Avenue, MS FA42, Canoga Park, CA 91304

Bokor, Jeffrey, Bell Laboratories, Room 4C-328, Holmdel, NJ 07733

Boody, Frederick P., Princeton Plasma Physics Laboratory, PO Box 451, Princeton, NJ 08544

Cornelius, Paul, University of Pennsylvania, Department of Chemistry, Philadelphia, PA 19141

Daugherty, Jack D., Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, MA 02149

Divens, William G., Molelectron Inc., 177 North Wolfe Road, Sunnyvale, CA 94086

Ewing, J. J., Mathematical Sciences Northwest, 2755 Northup Way, Bellevue, WA 98024

Fisher, Charlie, Mathematical Sciences Northwest, 2755 Northup Way, Bellevue, WA 98004

Fulghum, Stephen F., Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, MA 02149

Glass, Alexander J., KMS Fusion, PO Box 1567, Ann Arbor, MI 48106

Hancock, J. Kent, Department of Energy, NE-35, Mail Stop B-108, Washington, DC 20545

Harris, Dennis G., Rockwell International, 6633 Canoga Avenue, MS FA42, Canoga Park, CA 91304

Helm, Hanspeter, SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025

Hokazono, Hirokazu, Keio University, 3-14-1 Hiyoshi, Kohoku-ku, Yokohama-shi 223, JAPAN

Huestis, David L., SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025

Johnson, Richard R., Rockwell International, 6633 Canoga Avenue, MS FA-16, Canoga Park, CA 91304

Jones, C. R., Los Alamos National Laboratory, PO Box 1663, MS J564, Los Alamos, NM 87545

Kachen, George I., Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, MA 02149

Kannari, Fumihiko, Keio University, 3-14-1 Hiyoshi, Kohoku-ku, Yokohama-shi 223, JAPAN

Kawamura, Yoshiyuki K., Institute of Physical and Chemical Research, Wako-shi, Saitama 351, JAPAN

Klimek, Daniel E., Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, MA 02149

Laudenslager, James B., Jet Propulsion Laboratory, 4800 Oak Grove Drive, 183-601, Pasadena, CA 91109

Long, William, Northrop Corporation, 1 Research Park, Palos Verdes Peninsula, CA 90274

Lorents, Donald C., SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025

Lytel, Richard S., Lockheed Missiles & Space Company, B201, 05254, 3251 Hanover Street, Palo Alto, CA 94304

Marinero, E. E., Stanford University, Department of Chemistry, Stanford, CA 94305

Marowsky, Gerald H., Max-Planck-Institute, AM Fassberg, D-3400 Goettingen, WEST GERMANY

McDonald, James, Naval Research Laboratory, Code 6110, Washington, DC 20375

McKee, Terry J., Lumonics, Inc., 105 Schneider Road, Ottawa, Ontario K2K 1Y3, CANADA

Moody, Steve, Mathematical Sciences Northwest, 2755 Northup Way, Bellevue, WA 98004

Muller, David F., Western Research Corporation, 8616 Commerce Avenue, San Diego, CA 92121

Murray, Gordon A., Tachisto, Inc., 13 Highland Circle, Needham, MA 02194

Murray, John R., Lawrence Livermore National Laboratory, PO Box 5508, L-490, Livermore, CA 94550

Newnam, Brian E., Los Alamos National Laboratory, PO Box 1663, MS J564, Los Alamos, NM 87545

Obara, Minoru, Keio University, 3-14-1 Hiyoshi, Kohoku-ku, Yokohama-shi 223, JAPAN

Osgood, Richard M., Columbia University, Department of Electrical Engineering, 1312 SW Mudd Building, New York, NY 10027

Owren, Joseph H., Marco Scientific, Inc., 1031H East Duane Avenue, Sunnyvale, CA 94086

Pacala, Thomas J., Jet Propulsion Laboratory, 4800 Oak Grove Drive, 183-601, Pasadena, CA 91109

Pence, Bill, Mathematical Sciences Northwest, 2755 Northup Way, Bellevue, WA 98004

Poprawe, Reinhart, Th Darmstadt, Schlossgartenstr. 7, 6100 Darmstadt, WEST GERMANY

Proch, Detlev, MPI fuer Quantenoptik, 8046 Garching, WEST GERMANY

Proffitt, Michael H., NOAA/Aeronomy Laboratory, 325 S. Broadway, MS 448, Boulder, CO 80303

Rothe, Dietmar E., Helionetics, Inc., 3878 Ruffin Road, Suite A, San Diego, CA 92123

Scheerer, Laird D., University of Missouri, Department of Physics, Rolla, MO 65401

Schimitschek, Erhard, Naval Ocean Systems Center, Code 8111, San Diego, CA 92152

Schlachter, Alfred S., Lawrence Berkeley Laboratory, Mail Stop 5/116, Berkeley, CA 94720

Schuebel, Wolfgang K., Avionics Laboratory, AFWAL/AADO W-P AFB, Dayton, OH 45433

Shimazaki, Hitoshi, Keio University, 3-14-1 Hiyoshi, Kohoku-ku, Yokohama-shi 223, JAPAN

Siegler, Robert S., Rockwell International, 6633 Canoga Avenue, MS FA42, Canoga Park, CA 91304

Stappaerts, Eddy A., Northrop Corporation, 1 Research Park, Palos Verdes Peninsula, CA 90274

Suer, Herb S., TRW, 1000 Wilson Boulevard, Arlington, VA 22209

Sze, Robert C., Los Alamos National Laboratory, PO Box 1663, MS J566, Los Alamos, NM 87545

Tallman, Charles R., Los Alamos National Laboratory, PO Box 1663, J566, Los Alamos, NM 87545

Taylor, Rod S., National Research Council, Montreal Road, Building M23A, Ottawa, Ontario H1R 0R6, CANADA

Tellinghuisen, Joel B., Vanderbilt University, Department of Chemistry, Nashville, TN 37235

Tennant, Roger A., Los Alamos National Laboratory, PO Box 1663, MS K559, Los Alamos, NM 87545

Tittel, Frank K., Rice University, Department of Electrical Engineering, PO Box 1892, Houston, TX 77251

Trainor, Daniel W., Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, MA 20149

Waldman, Barry J., Rockwell International, 6633 Canoga Avenue, MS FA42, Canoga Park, CA 91304

Watanabe, Shuntaro W., University of Tokyo, 7-22-1 Roppongi, Minato-ku, Tokyo 106, JAPAN

Weeks, Robert, Lumonics, Inc., 105 Schneider Road, Ottawa, Ontario K2K 1Y3, CANADA

Wiesenfeld, John R., Cornell University, Baker Laboratory, Ithaca, NY 14853

Wilson, Mark W., SRI International, 333 Ravenswood Avenue, GT 2, Menlo Park, CA 94025

Wilson, William L., Rice University, Department of Electrical Engineering, PO Box 1892, Houston, TX 77251

Woods, Clifford W., Western Research Corporation, 8616 Commerce Avenue, San Diego, CA 92121

Yeh, Jen J., Allied Corporation, 31717 La Tienda Drive, Westlake Village, CA 91362

Young, Rosa T., Oak Ridge National Laboratory, Solid State Division, PO Box X, Oak Ridge, TN 37830

Znotins, Tom, Mathematical Sciences Northwest, 2755 Northup Way, Bellevue, WA 98004

ON-SITE ATTENDANCE LIST FOR EXCIMER LASERS

Lake Tahoe, Nevada

January 10-12, 1983

Artusy, Max, Quanta Ray, 1250 Charleston Rd., Mountain View, CA 94086  
Bittenson, Steven N., San Francisco Laser Center, Stanford University,  
Stanford, CA 94305  
Bucksbaum, Philip H., Bell Laboratories, 600 Mountain Ave., Murray  
Hill, NJ 07974  
Bruesselbach, Hans, W., Hughes Research Laboratories, 3011 Malibu  
Canyon Road, Malibu, CA 90265  
Bundy, Donald H., USEPA, P.O. Box 15027, Las Vegas, NV 89114  
Burnham, Ralph L., Naval Research Lab., Code 6540, Washington, DC. 20375  
Butcher, Robert R., Los Alamos National Lab., P.O. Box 1663, MS JS66,  
Los Alamos, NM 87544  
Champagne, Louis F., Naval Research Lab., 4555 Overlook Dr., Washington  
DC 20375  
Chen, Hao-Lin, Lawrence Livermore National Lab., P.O. Box 808, Livermore,  
CA 94550  
Chien, Kuei-Ru, TRW/STG, One Space Park, Redondo Beach, CA 90278  
Christensen, Paul, Potomac Photonics, 2233 Arlington Terrace, Alexandria,  
VA 22303  
Das, Palash P., Lasertechnics, 6007 Osuna Rd., NE, Albuquerque, NM 87109  
Dewey, Harry J., Los Alamos National Lab., M.S. E505, Los Alamos, NM 87545  
Dlabal, Michael L., NRL, Washington, D.C. 20375  
Ediger, Marwood N., University of Illinois, Dept. E.E., Urbana, IL 61820  
Egger, Hans, Univ. of Illinois, Dept. of Physics, P.O.Box 4348, Chicago,  
IL 60680  
Fahlen, Theodore S., XMR, Inc., 3350 Scott Blvd., Santa Clara, CA 95051  
Feiock, Frank D., Maxwell Lab., 8835 Balboa Ave., San Diego, CA 92123  
Fujiwara, Etsuo, Institute of Laser Engineering, Osaka University,  
Yamadaoka, Suita, Osaka 565 Japan  
George, Victor, Lawrence Livermore National Lab., Livermore, CA 94550  
Gibbs, Garry W., Office of Inertial Fusion, U.S. Dept. of Energy,  
Washington, D.C. 20545  
Goldhar, Julius, LLNL, Livermore, CA 94550  
Hirst, Graeme J., Clarendon Lab., Oxford Univ., Parks Rd., Oxford,  
OX1 3PU England  
Hoffman, Hanna J., Lockheed Res. Lab. Palo Alto, 3251 Hanover St.,  
GR 5254 B201, Palo Alto, CA 94304  
Hogan, Daniel C., The Clarendon Lab., Oxford University, Parks Road  
Oxford, OX1 3PU, England  
Holleman, Gerald W., TRW, One Space Park, R1/1196, Redondo Beach, CA 90266  
Holliday, James N., Northrop Res. & Tech. Center, One Research Park,  
Palos Verdes, CA 94278  
Holmes, Stephen J., Lawrence Livermore National Lab., Box 808/L122,  
Livermore, CA 94550  
Islam, Mohammed N., Lawrence Livermore National Lab., P.O. Box 808/L278  
Livermore, CA 94550  
Jain, Kanti, IBM Research Lab./K-46-282, 5600 Cottle Road, San Jose, CA 9519  
Jensen, Craig C., Lasertechnics, 6007 Osuna Rd., N.E., Albuquerque, NM 8710  
Kearsley, Andrew J., Clarendon Lab., Oxford, Parks Rd., Oxford, England  
Kessler, John N., KMI, 22 Farewell St., Newport, RI 02840  
Laudenslager, James B., Jet Propulsion Lab., 4800 Oak Grove Dr.,  
Pasadena, CA 91109  
Lavigne, Pierre, INRS-Energie, CP 1050 Montee Ste Julie, Varennes, PQ  
J3H2M4, Canada  
Levatter, Jeff I., Helionetics Inc., 3878 Ruffin Rd., San Diego, CA 92123  
Ling, Tim C., San Francisco Laser Centre, U.C. Berkeley, Berkeley, CA 94720  
Malin, Mark, Lockheed Research Labs., 3251 Hanover St. 5254/202, Palo  
Alto, CA 94304  
Marabella, Leonard J., TRW, One Space Park, Redondo Beach, CA 90278

Machshon, Yehuda, Rice Univ., Houston, TX 27001  
Marcus, Bruce D., TRW, R1 1196 One Space Park, Redondo Beach, CA 90278  
McCown, Andrew W., University of Illinois, Dept. of E.E., Urbana, IL 61801  
McGrath, Tim, Laser Focus, 540 Weddell Drive, Suite 8, Sunnyvale, CA 94086  
Papanyan, Valery, Inst. for Physical Research, Armenian Academy of Sciences  
Ashtarak-2 Armssr., Yerevan, USSR 375470  
Patterson, Kerry E., Science Applications Inc., 1503 Johnson Ferry Rd.,  
Ste 100, Marietta, GA 30062  
Pressley, Robert J., XMR, Inc, 3350 Scott Blvd. #57, Santa Clara, CA 95051  
Pummer, Herbert, University of Illinois, Dept. of Physics, Box 4348,  
Chicago, IL 60680  
Reintjes, John F., Naval Research Lab., Code 6542, Washington, DC 20375  
Rhodes, Charles K., University of Illinois, Dept. of Physics, Box 4348,  
Chicago, IL 60680  
Shaw, Mick J., Rutherford Appleton Laboratory, Chilton, Didcot, OX110QX,  
England  
Geo W. Sutton, Avco Everett Res. Lab., 2385 Revere Beach Pkwy, Everett,  
MA 02149  
Tanimoto, Douglas H., Maxwell Laboratories, 8835 Balboa Ave., San Diego,  
CA 92123  
Taylor, Edward W., Air Force Weapons Lab., Kirtland AFB, NM 87116  
Turner, Charles E., Rockwell/Rocketdyne, 6633 Canoga Ave., Canoga Park,  
CA 91304  
Walter, Robert F., W. J. Schafer Associates, 303 San Mateo, NE., Suite 103  
Albuquerque, NM 87108  
Waynant, Ronald W., Naval Research Laboratory, 4555 Overlook Ave., S. W,  
Washington, D.C 20375  
Wexler, Bernard L., Naval Research Lab., Code 6540, Washington, DC 20375  
White, Jonathan C., Bell Laboratories, Holmdel, NJ 07733  
Yang, Tien Tsai, Rockwell Int./Rocketdyne Div., 6633 Canoga Ave.,  
Canoga Park, CA 91304  
Yeh, Jen J. Allied Corp. MLP Div. 31717 La Tienda Dr., Westlake Village,  
CA 91362  
  
Zavelovich, Joshua, Standard Oil of Indiana, P.O. Box 400, MS B-1  
Naperville, IL 60566  
  
Pleasance, Lyn D., Lawrence Livermore National Laboratory, Livermore,  
CA 94550

## OPTICAL TECHNIQUES FOR REMOTE PROBING OF THE ATMOSPHERE, January 10-12, 1983

Altman, Wolf P., RCA Astro-Electronics, PO Box 800, Hightstown, NJ 08540  
Alvarez, Jose M., Langley Research Center, Hampton, VA 23665  
Bigelow, Russell N., GTE Products Corporation, PO Box 7188, Mountain View, CA 94039  
Biron, David G., MIT Lincoln Laboratory, 244 Wood Street, Lexington, MA 02173  
Carswell, Allan I., York University, 4700 Keele Street, Downsview, Ontario M3J 1P3,  
CANADA  
Chonacky, Norman J., Rome Air Development Center, OCSF, Griffiss AFB, NY 13441  
Churnside, James H., The Aerospace Corporation, PO Box 92957, Los Angeles, CA 90009  
Coffey, Michael T., NCAR, PO Box 3000, Boulder, CO 80307  
Cooney, John A., Drexel University, Department of Physics, Philadelphia, PA 19104  
Davidson, Gil, Photometrics, 4 Arrow Drive, Woburn, MA 01801  
Elliott, Richard A., Oregon Graduate Center, 19600 NW Walker Road, Beaverton, OR 97006  
Eon, Claude H., DRET SDNBC, Victor Bd 26th, 75015 Paris, FRANCE  
Escoe, David, Aerospace Corporation, PO Box 92957, Los Angeles, CA 90009  
Evans, Nathan L., Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109  
Faxvog, Fred R., Honeywell Systems & Research, 2600 Ridgeway, Minneapolis, MN 55440  
Flood, Walter A., US Army Research Office, PO Box 12211, Research Triangle Park, NC 27612  
Gardner, Chester S., University of Illinois, 1406 West Green Street, Urbana, IL 61801  
Gilbert, Valerie, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109  
Goroch, Andreas K., NEPRF, Monterey, CA 93940  
Grant, William B., Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109  
Green, Byron D., Physical Sciences Inc., Research Park, Andover, MA 01810  
Gross, Abraham, NOAA/ERL Wave Propagation Laboratory, 325 Broadway, Boulder, CO 80303  
Hall, Freeman F., NOAA Wave Propagation Laboratory, 325 Broadway, Boulder, CO 80303  
Hinkley, E. David, Jet Propulsion Laboratory, 4800 Oak Grove Drive, 180-701, Pasadena, CA 91109  
Hoff, Raymond M., Atmospheric Environment Service, 4905 Dufferin Street, Downsview, Ontario M3H 5T4, CANADA  
Hogan, David B., RCA Astro-Electronics, PO Box 800, Princeton, NJ 08540  
Holmes, J. Fred, Oregon Graduate Center, 19600 NW Walker Road, Beaverton, OR 97006  
Hudson, G. Martin, Martin Marietta, 8387 North Sunburst Trail, Parker, CO 80134  
Itzkan, Irving, Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, MA 02149  
Johnson, Richard R., Rockwell International, 6633 Canoga Avenue, MS FA42, Canoga Park, CA 91304  
Kachen, George I., Avco Everett Research Laboratory, 2385 Revere Beach Parkway, Everett, MA 02149  
Kavaya, Michael J., Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109  
Kelley, Paul L., MIT Lincoln Laboratory, PO Box 73, Lexington, MA 02173  
Kelly, Kenneth K., NOAA/Aeronomy Laboratory, 325 S. Broadway, Boulder, CO 80303  
Kendall, David J., National Research Council of Canada, 100 Sussex Drive, Ottawa, Ontario K1A 0R6, CANADA  
Killinger, Dennis K., MIT Lincoln Laboratory, PO Box 73, Lexington, MA 02173  
Kleespies, Thomas J., Naval Environmental Prediction Research Facility, Monterey, CA 93940,  
Kohl, Ronald H., Ronald H. Kohl & Associates, Route 2, Box 283B, Tullahoma, TN 37388  
Kohsiek, William, Royal Netherlands Meteorological Institute, PO Box 201, 3730 AE De Bilt,  
THE NETHERLANDS  
Kong, Jim A., MIT, Room 36-383, Cambridge, MA 02139  
Können, Günther P., Royal Netherlands Meteorological Institute, PO Box 201, 3730 AE De Bilt, THE NETHERLANDS  
La Porte, Daniel D., Santa Barbara Research Center, 75 Coromar Drive, Goleta, CA 93017  
Larsen, Jack C., Systems & Applied Sciences Corporation, 17 Research Drive, Hampton, VA 23666

## REMOTE PROBING

Lee, Long C., San Diego State University, Department of Electrical Engineering, San Diego, CA 92182

Lovold, Stian, Norwegian Defense Research Establishment, Kjeller N-2007, NORWAY

Lund, Philip S., Honeywell, Inc., 2600 Ridgway Parkway, Minneapolis, MN 55440

Lundqvist, Stefan H., Chalmers University, 41296 Goteborg, SWEDEN

Mankin, William G., NCAR, PO Box 3000, Boulder, CO 80307

Margolis, Jack S., Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109

McCormick, Norman J., University of Washington, Department of Nuclear Engineering, BF-10, Seattle, WA 98195

McDermid, Stuart, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109

Menyuk, Norman, MIT Lincoln Laboratory, PO Box 73, Lexington, MA 02173

Menzies, Robert T., Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109

Mill, John D., Air Force Geophysics Laboratory, AFGL/OPA, Hanscom AFB, MA 01731

Moody, Steve, Mathematical Sciences Northwest, 2755 Northup Way, Bellevue, WA 98004

Mooradian, Aram, MIT Lincoln Laboratory, PO Box 73, Lexington, MA 02173

Moore, Douglas A., Air Weather Service, HQ AWS/DNXP, Scott AFB, IL 62225

Murray, Kenneth M., KM Sciences, 1425 North Nash Street, # 13, Arlington, VA 22208

Murty, Rom, Alabama A & M University, PO Box 47, Normal, AL 35762

Niple, Edward R., Perkin-Elmer Corporation, 100 Wooster Heights Road, Danbury, CT 06810

Nomiyama, Neal T., GTE Products Corporation, PO Box 7188, Mountain View, CA 94039

Ochs, Gerard R., NOAA Wave Propagation Laboratory, 325 Broadway, Boulder, CO 80303

Peterson, Alan W., University of New Mexico, Department of Physics and Astronomy, Albuquerque, NM 87131

Reid, John, McMaster University, Department of Engineering Physics, 1280 Main Street West, Hamilton, Ontario L8S 4M1, CANADA

Rosenberg, Arie, RCA Astro-Electronics, PO Box 800, Princeton, NJ 08054

Rothman, Laurence S., Air Force Geophysics Laboratory, Optical Physics Division, Hanscom AFB, MA 01731

Rouillard, Pete, Allied Corporation, 31717 La Tienda Drive, Westlake Village, CA 91362

Shepherd, Gordon G., York University, 4700 Keele Street, Toronto, Ontario M3J 1P3, CANADA

Shumate, Michael S., Jet Propulsion Laboratory, 4800 Oak Grove Drive, 183-401, Pasadena, CA 91107

Smith, William L., University of Wisconsin, 1225 W. Dayton Street, Room 219, Madison, WI 53706

Sweeney, Harold E., GTE Products Corporation, PO Box 7188, Mountain View, CA 94039

Tsai, Bin-ming B., University of Illinois, 1406 West Green Street, Urbana, IL 61801

Walther, Eric G., Lockheed, PO Box 15027, Las Vegas, NV 89114

Wilkerson, Thomas D., University of Maryland, IPST, College Park, MD 20740

Wilson, Mark W., SRI International, 333 Ravenswood Avenue, GT 2, Menlo Park, CA 94025

Winchester, Jr., Leonard W., Michigan Technological University, Keweenaw Research Center, Houghton, MI 49931

Winder, Dale, Colorado State University, Department of Physics, Fort Collins, CO 80523

Woodman, Douglas P., GTE Products Corporation, PO Box 7188, Mountain View, CA 94039

Wright, Frank H., Jet Propulsion Laboratory, 4800 Oak Grove Drive, 11-116, Pasadena, CA 91109

Zachor, Alexander S., Atmospheric Radiation Consultants, 59 High Street, Acton, MA 01720

Znotins, Tom, Mathematical Sciences Northwest, 2755 Northup Way, Bellevue, WA 98004



## OPTICAL TECHNIQUES FOR REMOTE PROBING OF THE ATMOSPHERE, January 10-12, 1983

Anderson, James, Harvard, 40 Oxford St., Cambridge, MA 02138  
Azoulay, Ehud, SOREQ Res. Center Israel, 5 Hazonut St., Giv'at Shmuel, 51905, Israel  
Bair, Clayton H., NASA Langley Research Center, Hampton, VA 23665  
Bowman, Charles K. RCA Astro - Electronics, P. O. Box 800, Princeton, NJ 08540  
Breckinridge, James B., Caltech-JPL, 4800 Oak Grove Drive, Pasadena, CA 91011  
Bristow, Mike P., EPA, P. O. Box 15027, Las Vegas, NV 89114  
Browell, Edward V., NASA Langley Research Center, LARC, MS-401A, Hampton, VA 23665  
Bufton, Jack L., NASA Goddard Space Flight Center, Code 723, Greenbelt, MD 20771  
Buglia, James J., NASA Langley Research Center, Hampton, VA 23605  
Buntzen, Rod R., NAASW, Naval Ocean Systems Center, San Diego, CA 92152  
Byer, Robert L., Stanford, Stanford, CA 94305  
Cahen, Claude, Direction des Etudes & Recherches, 6 Quai Watier, Chatou, FRANCE 78400  
Chahine, Moustafa T., Jet Propulsion Laboratory, 4800 Oak Grove Dr., Pasadena, CA 91109  
Christesen, Steven D., Chemical Systems Laboratory, DRDAR-CLB-R, Aberdeen Proving Ground, MD 21010  
Clifford, Steven F., NOAA/ERL/WPL, 325 Broadway, Boulder, CO 80303  
Cooper, David E., SRI International, 333 Ravenswood Ave., Menlo Park, CA 94025  
Costello, Michael, TRW, One Space Park, Redondo Beach, CA 90278  
Cress, Ted S., AFOSR, Bolling AFB, DC 22192  
Daily, John W., University of California, Berkeley, CA 94720  
Deepak, Adarsh, IFAORS, P. O. Box P, Hampton, VA 23666  
Dodd, Joe K., Aerospace Corp., 2350 E. El Segundo Blvd, El Segundo, CA 90245  
Edmonds, Curtis M., US EPA, P. O. Box 15027, Las Vegas, NV 89114  
Emmitt, George D., NASA Marshall Space Flight Center, Huntsville, AL 35802  
Endemann, Martin G., Battelle Institute E.V., AM Roemerhof 35, Frankfurt, FRG 6000  
Gerber, Hermann E., Naval Research Laboratory, Washington, D.C.  
Gormsen, Barbara B., Systems & Applied Sciences Corp, 17 Research Drive, Hampton, VA 23666  
Gouldard, Robert, George Washington University, SEAS CMEE, Washington, D.C. 20052  
Harney, Robert C., Martin Marietta Aerospace, POB 5837, Orlando, FL 32855  
Haskins, Robert D., Jet Propulsion Lab - IFAORS, 4800 Oak Grove Drive, Pasadena, CA 91009  
Hill, Reginald J., NOAA/ERL/WPL, 325 Broadway, Boulder, CO 80303  
Hoffland, Lynn D., Chemical Systems Laboratory, DRDAR-CLB-R, Aberdeen Proving Ground, MD 21010  
Huo, Winifred M., University of Notre Dame, Notre Dame, IN 46556  
Itabe, Toshikazu, NASA Goddard Space Flight Center, Greenbelt, MD 20770  
Kalshoven, James E., NASA Goddard Space Flight Center, Greenbelt, MD 20771  
Kane, Thomas J., Stanford University, Ginzton Laboratory, Stanford, CA 94032  
Karl, Robert R., Los Alamos National Laboratory, MS-D466, Los Alamos, NM 87545  
Kim, Hongchuk H., NASA Goddard Space Flight Center, Greenbelt, MD 20771  
Korb, Larry C., NASA Goddard Space Flight Center, Greenbelt, MD 20771  
Kostiuk, Theodor, NASA Goddard Space Flight Center, Code 693, Greenbelt, MD 20771  
Kumer, Jack B., Lockheed Palo Alto Research Lab., 3251 Hanover St., Palo Alto, CA 94304  
Light, Glenn C., Aerospace Corp., 2350 E. El Segundo Blvd., El Segundo, CA 90245  
McGrath, Tim, LASER FOCUS, 540 Weddell Drive, Suite 8, Sunnyvale, CA 94086  
McCleese, Daniel J., Jet Propulsion Laboratory, Pasadena, CA 91109  
McPeters, Richard D., NASA Goddard Space Flight Center, Greenbelt, MD 20771  
Menzel, Paul, University of Wisconsin, 1225 West Dayton, Madison, WI 53705  
Mevers, Gus E., TRW, One Space Park, Redondo Beach, CA 90278  
Morgan, Ricky J., Itek Corp., 10 Maguire Rd., Lexington, MA 02  
Murcray, Frank J., University of Denver, Denver, CO 80208  
Murphy, Randall E., AFGL, Hanscom AFB, Bedford, MA  
Nelson, Ronald J., Science Applications, Inc., 505 Marquette, N.W., Albuquerque, NM 87102  
Partridge, Harry, Analatom, Humbolt Court, Sunnyvale, CA  
Petri, Kenneth J., Naval Air Development Center, Code 3012, Warminster, PA 18974  
Plonus, Martin, Northwestern Univ., Evanston, IL 60201  
Poultney, Sherman K., Perkin-Elmer Corp., 100 Wooster Heights Rd., Danbury, CT 06897

Pritchard, Richard H., The BDM Corporation, 1801 Randolph Road, S.E., Albuquerque, NM 87102  
Quigley, Gerard E., Los Alamos National Laboratory, Grp. CHM-4, MSJ567, Los Alamos, NM 87545  
Reichle, Jr., Henry G., NASA Langley Research Center, MS 401A, Hampton, VA 23665  
Rieger, Thomas J., Aerojet Electrosystems, 1100 Hollyvale St., Azusa, CA 91702  
Roche, Aidan E., Lockheed Palo Alto Research Lab., 3251 Hanover St., Palo Alto, CA 94303  
Russell, Philip B., NASA Ames Research Center, Moffett Field, CA 94035  
Rye, Barry J., University of Hull, Cottingham Road, Hull, NU165JN, U.K.  
Sachse, Glen W., NASA Langley Research Center, MS 283, Hampton, VA 23665  
Salik, Alfred, Naval Air Development Center, Code 3012, Warminster, PA 18974  
Shaffer, William A., Ohio State University, 174 West 18th Ave., Columbus, OH 43210  
Sharma, Ramesh D., Air Force Geophysics Lab., Hanscom AFB, MA 01731  
Sipler, Dwight, Air Force Geophysics Lab., Hanscom AFB, MA 01731  
Smith, Lewis L., Grumman Aerospace Corp., MS A01-25, Bethpage, NY 11714  
Stearns, Stephen D., GTE Sylvania, P. O. Box 7188, Mountain View, CA 94039  
Stone, Richard J., NOAA/National Weather Service, R. D. 1, Box 105, Sterling, VA 22157  
Suchsland, Kurt E., TRW, 677 E. Palm Ave., Redlands, CA 92373  
Valero, Francisco P., NASA Ames Research Center, Moffett Field, CA 94035  
Vitt, Robert C., General Electric Co., Valley Forge Space Center, P. O. Box 3555, Philadelphia, PA 19101  
Walden, Harvey, NASA Goddard Space Flight Center, Code 913, Greenbelt, MD 20771  
Weng, Science System and Applications, Inc., 5439 Watercress Palce, Columbia, MD 21045  
Wert, John C., ASD/AESD (USAF), 3101 Kemp Rd., Beavercreek, OH 45431  
Wiesemann, Wolf, Battelle Institut, Frankfurt 6000, FRG  
Winick, Jeremy R., Air Force Geophysics Lab., Hanscom AFB, MA 01731  
Woods, Peter T., National Physical Laboratory, Teddington, U.K.  
Yee, Young P., Atmospheric Sciences Lab., Attn: DELAS-AR-A, White Sands Missile Range, NM 88002

Anderson, Gail P., Air Force Geophysical Lab., LKD-Hanscom AFB, Bedford, MA 01739  
Casas, Joseph C., Old Dominion University, 17 Research Dr., Hampton, VA 23666  
Huffman, Robert E., Air Force Geophysics Lab., LKO, Hanscom AFB, MA 01731  
Cheo, Peter, United Technologies Research Center, E. Hartford, CT 06108  
Stair, A. T., Jr., Air Force Geophysics Lab., Hanscom AFB, MA 01742  
Yates, Harold W., NOAA/NESS, Suitland, MD 20235

METEOROLOGICAL Optics, January 12-14, 1983, Lake Tahoe, Nevada

Barmore, Frank E., University of Wisconsin - La Crosse, Department of Physics,  
La Crosse, WI 54601

Carswell, Allan I., York University, 4700 Keele Street, Downsview, Ontario  
M3J 1P3, CANADA

Coffey, Michael T., NCAR, PO Box 3000, Boulder, CO 80307

Eon, Claude H., DRET SDNBC, Victor Bd 26th, 75015 Paris, FRANCE

Gedzelman, Stanley D., City College of New York, Convent Avenue and 137th  
Street, New York, NY 10031

Goroch, Andreas K., NEPRF, Monterey, CA 93940

Greenler, Robert G., University of Wisconsin, Department of Physics,  
Milwaukee, WI 53201

Hall, Freeman F., NOAA Wave Propagation Laboratory, 325 Broadway, Boulder, CO  
80303

Henry, Ronald C., ERT, Inc., 2625 Townsgate Road, Westlake Village, CA 91361

Hering, Wayne S., University of California, Visibility Laboratory, P003, La  
Jolla, CA 92093

Hoff, Raymond M., Atmospheric Environment Service, 4905 Dufferin Street,  
Downsview, Ontario M3H 5T4, CANADA

Johnson, Richard W., University of California, Visibility Laboratory, P003, La  
Jolla, CA 92093

Kleespies, Thomas J., Naval Environmental Prediction Research Facility,  
Monterey, CA 93940

Können, Günther P., Royal Netherlands Meteorological Institute, PO Box 201,  
3730 AE De Bilt, THE NETHERLANDS

Lehn, Waldemar H., University of Manitoba, Department of Electrical  
Engineering, Winnipeg, Manitoba R3T 2N2, CANADA

Livingston, William C., Kitt Peak Observatory, PO Box 26732, Tucson, AZ  
85726

Lynch, David K., Hughes Research Laboratories, 3011 Malibu Canyon Road,  
Malibu, CA 90265

Mach, William H., Florida State University, 402 Love, Tallahassee, FL 32306

Mankin, William G., NCAR, PO Box 3000, Boulder, CO 80307

Marston, Philip L., Washington State University, Department of Physics,  
Pullman, WA 99164

Michalsky, Joseph J., Battelle, Pacific Northwest Laboratories, PO Box 999,  
Richland, WA 99352

Moore, Douglas A., Air Weather Service, HQ AWS/DNXP, Scott AFB, IL 62225

Mueller, James R., California Poly State University, Department of  
Mathematics, San Luis Obispo, CA 93407

Murray, Kenneth M., KM Sciences, 1425 North Nash Street, # 13, Arlington, VA  
22208

Ochs, Gerard R., NOAA Wave Propagation Laboratory, 325 Broadway, Boulder, CO  
80303

Peterson, Alan W., University of New Mexico, Department of Physics and  
Astronomy, Albuquerque, NM 87131

Siegler, Robert S., Rockwell International, 6633 Canoga Avenue, MS FA42,  
Canoga Park, CA 91304

Steneken, Gary L., ESCO Products, Inc., 171 Oak Ridge Road, Oak Ridge, NJ  
07438

Suer, Herb S., TRW, 1000 Wilson Boulevard, Arlington, VA 22209

Waldman, Barry J., Rockwell International, 6633 Canoga Avenue, MS FA42, Canoga  
Park, CA 91304

Walther, Eric G., Lockheed, PO Box 15027, Las Vegas, NV 89114

Wilkerson, Thomas D., University of Maryland, IPST, College Park, MD 20740

Winchester, Jr., Leonard W., Michigan Technological University, Keweenaw  
Research Center, Houghton, MI 49931

Winder, Dale, Colorado State University, Department of Physics, Fort Collins,  
CO 80523

METEOROLOGICAL OPTICS, January 12-14, 1985, Lake Tahoe, Nevada

Bohren, Craig F., Pennsylvania State University, Dept. of Meteorology, University Park,  
PA 16802

Buften, Jack L., NASA Goddard Space Flight Center, Code 723, Greenbelt, MD 20771

Cahen, Claude, Direction des Etudes & Recherches, 6 Quai Watier, Chatou, France 78400

Clifford, Steven F., NOAA/ERL/RL 325 Broadway, Boulder, CO 80303

Cress, Ted S., AFOSR, Bolling AFB, D.C. 22192

Fraser, Alistair B., Pennsylvania State University, 503 Walker Bldg., University Park, PA  
16802

Hill, Reginald J., NOAA/ERL/WPL 325 Broadway, Boulder, CO 80303

Islam, Mohammed N., Lawrence Livermore National Laboratory, P. O. Box 808, L-278,  
Livermore, CA 94550

Kaufman, Yoram J., NASA Goddard Space Flight Center, Code 915, Greenbelt, MD 20771

Korb, Larry C., NASA Goddard Space Flight Center, Greenbelt, MD 20771

Mallman, A. James, Milwaukee School of Engineering, P. O. Box 644, Milwaukee, WI 53201

McGrath, Tim, LASER FOCUS, 540 Welles Dr., Suite 8, Sunnyvale, CA 94086

Oluwafemi, Cornelius O., Physics Dept. Lagos University, Lagos, Nigeria

Pluchino, Antonino B., The Aerospace Corporation, El Segundo Blvd., El Segundo, CA 90009

Stahl, Harlow P., Optical Sciences Center, University of Arizona, Tucson, AZ 85719

Tape, Walter, University of Alaska, Fairbanks, AK 99701

Weng, Che Y., Science System and Application Inc., 5439 Watercress Pl., Columbia, MD 21045

Yates, Harold W., NOAA/NESS, Suitland, MD 20255

Yee, Young P., Atmospheric Sciences Lab., Attn: DELAS-AR-A, White Sands Missile Range,  
NM 88002